

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
DOLET HILLS LIGNITE COMPANY-DOLET HILLS MINE
PROPOSED STATE AIR OPERATING PERMIT MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a state air operating permit for Dolet Hills Lignite Company, 377 Hwy 522, Mansfield, LA 71052 for the Dolet Hills Mine. **The facility is located at 377 Hwy 522, Mansfield, DeSoto Parish.**

The Dolet Hills Lignite Company extracts lignite coal from deposits that are close to the surface. The facility currently operates under Permit No. 0760-00008-04, issued on March 24, 2008.

Dolet Hills Lignite Company requested the following changes:

Dolet Hills Lignite Company proposes to increase the Diesel Tanks CAP (EQT 79) annual diesel throughput from 3.24 MM gallons per year to 4.0 MM gallons per year and proposes to group all of the facility's Motor Oil Tanks into a single source which will have an annual Lube Oil throughput limit.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	1,726.16	1,726.16	-
SO ₂	17.59	17.59	-
NO _x	94.98	94.98	-
CO	39.94	39.94	-
VOC	17.29	17.29	-

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, June 3, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application and proposed state air operating permit are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

An additional copy may be reviewed at DeSoto Parish Library, Headquarters, 109 Crosby Street, Mansfield, LA..

Inquiries or requests for additional information regarding this permit action should be directed to Traci Green, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3009.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm

All correspondence should specify AI Number 11541, Permit Number 0760-00008-05, and Activity Number PER20080003.

Publication date: May 1, 2008

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20080003
Agency Interest No.: 11541

Mr. Dennis J. Meyer
General Manager
Dolet Hills Mine
377 Hwy 522
Mansfield, LA 71052

RE: Permit Modification, Dolet Hills Mine, Dolet Hills Lignite Co., LLC
Mansfield, DeSoto Parish, Louisiana

Dear Mr. Meyer:

This is to inform you that the permit modification request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008.

Permit No.: 1760-00008-05

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN: trg

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Dolet Hills Mine
Agency Interest No.: 11541
Dolet Hills Lignite Co LLC
Mansfield, DeSoto Parish, Louisiana**

I. BACKGROUND

Southwestern Electric Power Company was issued Permit No. 1050 on October 26, 1978, for the Lignite Mine Dolet Hills Project. Active mining operations began in August 1985 after the 640 MW Dolet Hills Power Station's construction was completed. On June 1, 2001, the operation of the facility was transferred to the Dolet Hills Lignite Company. The approximately 30,000 acre mine is within Townships 11 and 12 North, and Ranges 10, 11, 12, and 13 West of Eastern De Soto Parish. The two main entrances to the mine are on Louisiana Highway 177, approximately one mile west of Interstate I-49 and approximately one and three quarters miles east of Louisiana Highway 552 and Truevine Road. The facility currently operates under Permit No. 0760-00008-04 issued on March 24, 2008.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated March 4, 2008 were received requesting a permit modification. Additional information was received on April 1, 2008.

III. DESCRIPTION

The Dolet Hills Lignite Company extracts lignite from deposits that are close to the surface. Lignite is a coal in the early stages of coalification, with properties intermediate to those of bituminous coal and peat. Lignite normally has high moisture content (between 20% and 40% by weight) and a low heating value. Lignite also has low sulfur content. The Louisiana Department of Natural Resources issued a lignite mining permit for an area of approximately 30,000 acres. The lignite is used primarily as a fuel source for the Dolet Hills Power Plant, which is located near Naborton, Louisiana.

Lignite mining operations can be divided into four primary processes or areas.

- Active Mining
- Reclamation
- Inactive Areas
- Ancillary Support areas

Active mining areas are those regions where the lignite is being uncovered, excavated or removed. To access the lignite, the overburden, ranging in depth from 20 to 140 feet, is removed by electric walking draglines. Once exposed, the lignite is excavated using a backhoe. The lignite is loaded into haul trucks and transported to a central lignite storage pile or directly loaded onto a conveyor. As the dragline digs the pit to uncover the lignite, the material removed is stockpiled in an adjoining area that was previously mined. The ridges formed by the dragline as it dumps the overburden are then re-graded with bulldozers. As the next pit is dug, the excavated materials are

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Dolet Hills Mine
Agency Interest No.: 11541
Dolet Hills Lignite Co LLC
Mansfield, DeSoto Parish, Louisiana

used to fill in the prior mine pit. This refilling process is used to return mined areas to their approximate surface prior to mining, thus beginning the reclamation process.

Reclamation and re-vegetation starts when active mining operations cease. Dozers and scrapers are used to grade the spoil. Four feet of oxidized material is hauled by trucks and spread by dozers to provide a finished surface. Drop structures and terraces are designed and installed to control erosion. The land is then tilled and ground cover is planted to further stabilize any slopes.

Inactive areas include areas that have not been mined and areas where the reclamation process has been completed.

Ancillary support areas provide services which support mining and reclamation activities. These include haul roads, lignite bulk storage and transfer areas, equipment staging and maintenance areas, material and fuel storage areas, subcontractor equipment staging and construction services and sanitary wastewater treatment. The equipment staging, maintenance, material and fuel storage areas are located throughout the mine and are moved as needed to remain close to active mine sites.

Dolet Hills Lignite Company proposes to increase the Diesel Tanks CAP (EQT 79) annual diesel throughput from 3.24 MM gallons per year to 4.0 MM gallons per year and proposes to group all of the facility's Motor Oil Tanks into a single source which will have an annual Lube Oil throughput limit.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	1,726.16	1,726.16	-
SO ₂	17.59	17.59	-
NO _X	94.98	94.98	-
CO	39.94	39.94	-
VOC	17.29	17.29	-

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations, Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply. Diesel equipment included in CAP may be subject to New Source Performance Standards (NSPS) Subpart IIII.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Dolet Hills Mine
Agency Interest No.: 11541
Dolet Hills Lignite Co LLC
Mansfield, DeSoto Parish, Louisiana**

V. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <Date>; and in *The Enterprise & Interstate Progress*, Mansfield, on <Date>. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <Date>. No comments received.

VI. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: None

VII. GENERAL CONDITION XVII ACTIVITIES

None

VIII. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation
BP-001	2,000 gallon Diesel Tanks	LAC 33:III.501.B.5.A.3
BP-004	550 gallon Lube Oil Tanks	LAC 33:III.501.B.5.A.3
BP-005	550 gallon Lube Oil Tanks	LAC 33:III.501.B.5.A.3
BP-006	1,000 gallon Used Oil Tank	LAC 33:III.501.B.5.A.3
FC-007	1,000 gallon Hydraulic Oil Tanks	LAC 33:III.501.B.5.A.3
FC-008	1,000 gallon Hydraulic Oil Tanks	LAC 33:III.501.B.5.A.3
FC-009	2,000 gallon Lube Oil Tank	LAC 33:III.501.B.5.A.3
FC-010	500 gallon Lube Oil Tank	LAC 33:III.501.B.5.A.3
RS-001	2,000 gallon Diesel Tanks	LAC 33:III.501.B.5.A.3
RS-002	3,000 gallon Diesel Tanks	LAC 33:III.501.B.5.A.3
RS-003	2,000 gallon Diesel Tanks	LAC 33:III.501.B.5.A.3
PP-002	5,000 gallon Diesel Tank	LAC 33:III.501.B.5.A.3

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated March 4, 2008, along with supplemental information dated April 1, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 11541 Dolet Hills Mine
Activity Number: PER2008003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

Also Known As:	ID	Name	User Group	Start Date
	0760-00008	Dolet Hills Mine	CDS Number	05-27-1993
	36-373535	Federal Tax ID	Federal Tax ID	11-21-1999
	LA0064076	LPDES #	LPDES Permit #	06-25-2003
	WP0338	LWDPS #	LWDPS Permit #	06-25-2003
	D-031-1531	Dolet Hills Lignite Mine	Solid Waste Facility No.	11-09-1983
	4202	Southwestern Electric Power Co (SWEPCO) - Dolet Hills Project	TEMPO Merge	06-20-2002
	WQC JP 050421-11	Water Quality Certification #	Water Certification	04-22-2005
Physical Location:			Main Phone:	3188726300
Mailing Address:	377 Hwy 522			
	Mansfield, LA 71052			
Location of Front Gate:	32° 2' 33" latitude, 93° 38' 6" longitude, Coordinate Method: Interpolation - Map,	Coordinate Datum: NAD27		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Dennis Meyer	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188726300 ext 12)	Responsible Official for
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Air Permit Contact For
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Air Permit Contact For
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Air Permit Contact For
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Emission Inventory Contact for
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Emission Inventory Contact for
	David Wright	377 Hwy 522 Mansfield, LA 71052	DWRIGHT@AEP.(3188725752 (WF))	Emission Inventory Contact for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Dolet Hills Lignite Co LLC	377 Hwy 522 Mansfield, LA 71052		Water Billing Party for
	Dolet Hills Lignite Co LLC	377 Hwy 522 Mansfield, LA 71052		Air Billing Party for
	Dolet Hills Lignite Co LLC	377 Hwy 522 Mansfield, LA 71052		Owns
	Dolet Hills Lignite Co LLC	377 Hwy 522 Mansfield, LA 71052		Operates
	Dolet Hills Lignite Co LLC	377 Hwy 522 Mansfield, LA 71052		Emission Inventory Billing Party
NAIC Codes:	21, Mining			

General Information

AI ID: 11541 Dotet Hills Mine
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INVENTORIES

AI ID: 11541 - Dolet Hills Mine
 Activity Number: PER2008003
 Permit Number: 1760-000008-05
 Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Dolet Hills Mine						
EQT0034	4-05b - Motor Oil Tanks CAP	150000 gallons/yr	150000 gallons/yr	Lube Oil	8760 hr/yr (All Year)	
EQT0077	7-07 - Small Diesel Powered Equipment		11,698,800.00 hp-hrs/yr		8760 hr/yr (All Year)	
EQT0078	4-05b - Gasoline Tanks CAP			Gasoline	8760 hr/yr (All Year)	
EQT0079	4-05a - Diesel Tanks CAP	4 MM gallons/yr	4 MM gallons/yr	Diesel	8760 hr/yr (All Year)	
EQT0080	5-02 - Large Portable Generators CAP		5,250,000 hp-hrs/yr		7000 hr/yr (All Year)	
FUG0001	1-02 - Lignite Loading Fugitives	4.8 MM tons/yr	4 MM tons/yr		8760 hr/yr (All Year)	
FUG0002	2-02 - Overburden & Lignite Bulldozing Fugitives	Not applicable	Not applicable		8760 hr/yr (All Year)	
FUG0003	3-02 - Dragline Fugitives	68.1 MM yd^3/yr	59.8 MM yd^3/yr		8760 hr/yr (All Year)	
FUG0004	4-02 - Vehicle Traffic Fugitives	1.94 (other units)	1.42 (other units)	MM VMT/yr	8760 hr/yr (All Year)	
FUG0005	5-05 - Lignite Storage Pile Fugitives	Not applicable	Not applicable		8760 hr/yr (All Year)	

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Dolet Hills Mine							
EQT0077	7-07 - Small Diesel Powered Equipment	67	200	.25		10	200
EQT0080	5-02 - Large Portable Generators CAP						

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
CRG0001	Common Requirements Group	NSPS Subpart III - NSPS Subpart III requirements
UNF0001	Unit or Facility Wide	Dolet Hills Mine - Dolet Hills Mine

Group Membership:

ID	Description	Member of Groups
EOT0077	7-07 - Small Diesel Powered Equipment	CRG000000000001
EOT0080	5-02 - Large Portable Generators CAP	CRG000000000001

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multipiler	Units Of Measure
O020	Bituminous Coal and Lignite Mining		
1211	Bituminous Coal & Lignite Mining	A111541	

INVENTORIES

AI ID: 11541 - Dolet Hills Mine
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SIC Codes:

1211	Bituminous Coal & Lignite-Mng	UNF001
5052	Coal and other minerals and ores	A11541

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 11541 - Dolet Hills Mine
 Activity Number: PER20080003
 Permit Number: 1760-00008-05
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Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Dolet Hills Mine															
EQT 0034 4-05b															
EQT 0077 7-07	8.32	9.98	36.44	15.86	19.03	69.46	2.58	3.09	11.29	2.76	3.31	12.08	3.49	4.19	15.28
EQT 0078 4-05b															
EQT 0079 4-05b															
EQT 0080 5-02	1.00	2.40	3.50	7.29	17.50	25.52	0.30	0.72	1.05	1.58	3.78	5.51	0.08	0.19	0.28
FUG 0001 1-02															
FUG 0002 2-02															
FUG 0003 3-02															
FUG 0004 4-02															
FUG 0005 5-05															

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

EQT0034 Motor Oil Tanks CAP

- 1 [LAC 33:III.501.C.6]
- 2 [LAC 33:III.501.C.6]
- 3 [LAC 33:III.501.C.6]
- 4 [LAC 33:III.501.C.6]

Submit report: Due annually, by the 31st of March. Report the total combined throughput for all Motor Oil storage tanks for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

Total Combined Throughput <= 150000 gallons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total combined throughput for all Motor Oil storage tanks exceeds the maximum listed in this specific condition for any twelve consecutive month period.

Which Months: All Year Statistical Basis: Annual maximum

Total Combined Throughput monitored by technically sound method continuously.

Which Months: All Year Statistical Basis: None specified

Total Combined Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total combined throughput for all diesel storage tanks each month, as well as the total combined throughput for all Motor Oil storage tanks for the last twelve months. Make records available for inspection by DEQ personnel.

EQT0077 Small Diesel Powered Equipment CAP

- 5 [LAC 33:III.1311.C]
- 6 [LAC 33:III.1513]
- 7 [LAC 33:III.501.C.6]
- 8 [LAC 33:III.501.C.6]
- 9 [LAC 33:III.501.C.6]
- 10 [LAC 33:III.501.C.6]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

Submit report: Due annually, by the 31st of March. Report the total combined operating rate for all diesel powered equipment for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

Total Combined Operating Rate recordkeeping by electronic or hard copy continuously. Keep records of the total combined operating rate for all diesel powered equipment each month, as well as the total combined operating rate for all diesel powered equipment for the last twelve months. Make records available for inspection by DEQ personnel.

Total Combined Operating Rate <= 11,698,800 hp-hr/year. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined operating rate for all diesel powered equipment exceeds the maximum listed in this specific condition for any twelve consecutive month period.

Total Combined Operating rate monitored by technically sound method continuously.

EQT0078 Gasoline Tanks CAP

- 11 [LAC 33:III.2103.A]
- 12 [LAC 33:III.2103.H.3]
- 13 [LAC 33:III.2103.I.]
- 14 [LAC 33:III.501.C.6]

Equip with a submerged fill pipe.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

Submit report: Due annually, by the 31st of March. Report the total combined throughput for all gasoline storage tanks for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

EQT0078 Gasoline Tanks CAP

- 15 [LAC 33:III.501.C.6] Total Combined Throughput ≤ 0.1613 MM gallons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total combined throughput for all gasoline storage tanks exceeds the maximum listed in this specific condition for any twelve consecutive month period.
 Which Months: All Year Statistical Basis: Annual maximum
- 16 [LAC 33:III.501.C.6] Total Combined Throughput monitored by technically sound method continuously.
 Which Months: All Year Statistical Basis: None specified
- 17 [LAC 33:III.501.C.6] Total Combined Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total combined throughput for all gasoline storage tanks each month, as well as the total combined throughput for all gasoline storage tanks for the last twelve months. Make records available for inspection by DEQ personnel.

EQT0079 Diesel Tanks CAP

- 18 [LAC 33:III.501.C.6] Submit report: Due annually, by the 31st of March. Report the total combined throughput for all diesel storage tanks for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
 Total Combined Throughput ≤ 4.00 MM gallons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total combined throughput for all diesel storage tanks exceeds the maximum listed in this specific condition for any twelve consecutive month period.
 Which Months: All Year Statistical Basis: Annual maximum
- 19 [LAC 33:III.501.C.6] Total Combined Throughput monitored by technically sound method continuously.
 Which Months: All Year Statistical Basis: None specified
- 20 [LAC 33:III.501.C.6] Total Combined Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total combined throughput for all diesel storage tanks each month, as well as the total combined throughput for all diesel storage tanks for the last twelve months. Make records available for inspection by DEQ personnel.

EQT0080 Large Portable Generators CAP

- 22 [LAC 33:III.1311.C] Opacity ≤ 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 23 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

EQT0080 Large Portable Generators CAP

- 24 [LAC 33:III.501.C.6] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. The stack test shall be performed once for each source covered by this equipment CAP. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.
- Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
- Which Months: All Year Statistical Basis: None specified
- Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
- Which Months: All Year Statistical Basis: None specified
- Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
- Which Months: All Year Statistical Basis: None specified
- Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.
- Submit report: Due annually, by the 31st of March. Report the total combined operating rate for the generators for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- Total Combined Operating Rate recordkeeping by electronic or hard copy continuously. Keep records of the total combined operating rate for the generators each month, as well as the total combined operating rate for the generators for the last twelve months. Make records available for inspection by DEQ personnel.
- Total Combined Operating Rate <= 5,250,000 hp-hr/year. Notify the Office of Environmental Compliance, Enforcement Division if the combined operating rate of the generators exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- Total Combined Operating rate monitored by technically sound method continuously.

FUG0001 1-02 Lignite Loading Fugitives

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

FUG0001 1-02 Lignite Loading Fugitives

- 35 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG0002 2-02 Overburden & Lignite Bulldozing Fugitives

- 36 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG0003 3-02 Dragline Fugitives

- 37 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG0004 4-02 Vehicle Traffic Fugitives

- 38 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG0005 5-05 Lignite Storage Pile Fugitives

- 39 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

CRG0001 NSPS Subpart III requirements

Group Members: EQT0077 EQT0080

- 40 [40 CFR 60.4204(a)] All Pre-2007 model year engines with a displacement of < 10 liters per cylinder shall comply with the appropriate emission standards of Table 1 of 40 CFR 60, Subpart III. [40 CFR 60.4204(a)]
 Comply with the emission standards for new CI engines in 40 CFR 60.4201, as applicable. Subpart III. [40 CFR 60.4204(b)]
 Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-00008-05
Air - Minor (Synthetic) Modification

CRG0001 NSPS Subpart III requirements

- 45 [40 CFR 60.4209(b)] If a stationary CI internal combustion engine is equipped with a diesel particulate filter in order to comply with the emission standards as outlined in 60.4204, Pressure monitored by pressure instrument continuously during operation. Install a backpressure monitor on the diesel particulate filter that notifies the owner or operator when the high backpressure limit of the engine is approached. Subpart IIII (Monitoring the pressure drop only applies if a particulate filter is used.) [40 CFR 60.4209(b)]
- 46 [40 CFR 60.4211(a)] Which Months: All Year Statistical Basis: None specified Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)] Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart IIII. [40 CFR 60.4211(b)] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)] Equipment/operational data monitored by technically sound method continuously. Subpart IIII. [40 CFR 60.4211(d)(2)]
- 47 [40 CFR 60.4211(b)] Which Months: All Year Statistical Basis: None specified Submit petition to DEQ for approval of operating parameters to be monitored continuously. Include the information described in 40 CFR 60.4211(d)(2)(i) through (d)(2)(v). Subpart IIII. [40 CFR 60.4211(d)(2)]
- 48 [40 CFR 60.4211(c)] If required to conduct performance tests, Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart IIII. Depending on the applicable regulation, performance may not be required for all engines.
- 49 [40 CFR 60.4211(d)(2)]
- 50 [40 CFR 60.4211(d)(2)]
- 51 [40 CFR 60.4212] If a stationary CI internal combustion engine is equipped with a diesel particulate filter, Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. Subpart IIII. [40 CFR 60.4214(c)]
- 52 [40 CFR 60.4214(c)]
- 53 [40 CFR 60.4208]
- 54 [40 CFR 82,Subpart F]
- 55 [LAC 33:III.1103]
- 56 [LAC 33:III.1109.B]
- 57 [LAC 33:III.1303.B]
- 58 [LAC 33:III.2113.A]
- Comply with all applicable deadlines specified in 40 CFR 60.4208(a) through (h). Subpart IIII.
- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.1111 or intensify an existing traffic hazard condition are prohibited.
- Outdoor burning of waste material or other combustible material is prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

UNF0001 Dolet Hills Mine

- 53 [40 CFR 60.4208]
- 54 [40 CFR 82,Subpart F]
- 55 [LAC 33:III.1103]
- 56 [LAC 33:III.1109.B]
- 57 [LAC 33:III.1303.B]
- 58 [LAC 33:III.2113.A]
- Comply with all applicable deadlines specified in 40 CFR 60.4208(a) through (h). Subpart IIII.
- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.1111 or intensify an existing traffic hazard condition are prohibited.
- Outdoor burning of waste material or other combustible material is prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

SPECIFIC REQUIREMENTS

AI ID: 11541 - Dolet Hills Mine
Activity Number: PER20080003
Permit Number: 1760-000008-05
Air - Minor (Synthetic) Modification

UNF0001 Dolet Hills Mine

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

59 [LAC 33:III.219]

60 [LAC 33:III.5611.A]

61 [LAC 33:III.5611.B]

62 [LAC 33:III.919.D]

Dole Hills Lignite Company, LLC
 Dole Hills Mine

Providence

Large Portable Generators CAP
 EQT 5-02

EQT 5-02c - 750 Hp Generator
 EQT 5-02d - 750 Hp Generator

750 Hp Generators - EQT 5-02c and 5-02d

Operating Hours: 3,500 Hours/year per generator
 Operating Schedule: 7,000 Total Operating Hours
 # operating generators: 2 Maximum number of generators operating at one time
 HP Rating: 750 hp
 Annual Operating Rate: 5,250,000 hp-hrs/year

Pollutant	Emission Factor	Emissions per Generator		
		Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)
PM-10	0.3 lbs/hr	0.300	0.360	0.525
SO ₂	0.0021 lbs/hp-hr	1.575	1.890	2.756
NOx	7.29 lbs/hr	7.290	8.748	12.758
CO	1 lbs/hr	1.000	1.200	1.750
VOC	0.08 lbs/hr	0.080	0.096	0.140

Pollutant	Total Emissions Under CAP		
	Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)
PM-10	0.300	0.720	1.050
SO ₂	1.575	3.780	5.513
NOx	7.290	17.496	25.515
CO	1.000	2.400	3.500
VOC	0.080	0.192	0.280

Note 1: Assumes both 750 Hp Generators operate simultaneously.

Note 2: NOx emission factor from stack test. Other emission factors provided by manufacturer.

Dole Hills Lignite Company, LLC
Dole Hills Mine

Providence Engineering

Large Portable Generators CAP
EQT 5-02

EQT 5-02c - 750 Hp Generator
EQT 5-02d - 750 Hp Generator

750 Hp Generators - EQT 5-02c and 5-02d

Operating Hours:	3,500	Hours/year per generator
Operating Schedule:	7,000	Total Operating Hours
# operating generators:	2	Maximum number of generators operating at one time
HP Rating	750	hp
Annual Operating Rate:	5,250,000	hp-hrs/year

Pollutant	Emission Factor (lb/hr)	Emissions per Generator		
		Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)
PM-10	0.3	0.300	0.360	0.525
SO ₂	0.0021	1.575	1.890	2.756
NOx	7.29	7.290	8.748	12.758
CO	1	1.000	1.200	1.750
VOC	0.08	0.080	0.096	0.140

Pollutant	Total Emissions Under CAP		
	Average (lb/hr)	Maximum (lb/hr)	Annual (tpy)
PM-10	0.600	0.720	1.050
SO ₂	3.150	3.780	5.513
NOx	14.580	17.496	25.515
CO	2.000	2.400	3.500
VOC	0.160	0.192	0.280

Note 1: Assumes both 750 Hp Generators operate simultaneously.

Note 2: NOx emission factor from stack test. Other emission factors provided by manufacturer.

RECEIVED APR 01 2008 **DCOM**

original to T OA
copy to B48 MEG/Krz/T Green

LDEQ

LDEQ RECEIPT PER Z00 80003
PROVIDENCE

1201 Main Street
Baton Rouge, LA 70802
(225) 766-7400

P.O. Box 31
Sulphur, LA 70664
(337) 528-0066

450 E. Pass Rd., #106
Gulfport, MS 39507
(228) 897-7676

1200 Walnut Hill Lane, #1000
Irving, TX 75038
(972) 550-9326

April 1, 2008

Louisiana Department of Environmental Quality
Permits Division
P.O. Box 4314
Baton Rouge, LA 70821-4314
Attn: Ms. Traci Green

RE: Additional Information Requested for the Minor Modification Application
Dolet Hills Lignite Company, LLC
Mansfield, Desoto Parish, Louisiana
Providence Engineering Project No. 199-003
Agency Interest No. 11541

Dear Ms. Green:

On behalf of Dolet Hills Lignite Company, LLC (DHLC), Providence Engineering and Environmental Group LLC (Providence) is submitting this information in response to your request for additional information and clarification for the addendum for the minor modification application for the Dolet Hills Mine located in Mansfield, Louisiana submitted on July 16, 2007.

Project Description

The Dolet Hills Lignite Mine operated by DHLC is a minor source of criteria air pollutants and toxic air pollutants (TAPs), and currently operates under Permit No. 0760-00008-03 issued on May 31, 2007. Previously DHLC requested a minor modification to:

- Increase the Diesel and Oil Tanks CAP (GRP006) annual diesel throughput from 3.24 MM gallons per year to 4.0 MM gallons per year.
- Request the removal of BP-002 (EQT027) from the permit, and
- Correct the material in tank MS-002 (EQT032) from diesel to lube oil.

This document is submitted to:

- Separate the Diesel tanks and Oil Tanks into different CAPs.

Ms. Traci Green
April 1, 2008
Page 2 of 2

If you have questions regarding this submittal, please call me at (225) 766-7400. We sincerely appreciate your prompt attention to this request.

Sincerely,
Providence Engineering and Environmental Group LLC



Kevin Calhoun, P.E.
Senior Engineer

Attachment

cc: David Wright (DHLC)

**DOLET HILLS MINE
MANSFIELD, DESOTO PARISH, LOUISIANA**

EMISSION POINT LIST

Emission Point No.:	Description	Max Capacity	Operating Rate or Tank	Operating Schedule
			H/D	D/W
				W/Y
GRP006	4-05a Diesel Tanks CAP	4,000,000	Gallons/year of Diesel	-
	4-05b Oil Tanks CAP	150,000	Gallons/year of Lube Oil	-
EQT029	FC-002 Diesel Tank	10,000	Gallons	24 7 52
EQT030	FC-003 Diesel Tank	40,000	Gallons	24 7 52
EQT031	FC-004 Diesel Tank	40,000	Gallons	24 7 52
EQT032	MS-002 Lube Oil Tank	10,000	Gallons	24 7 52
EQT033	MS-004 Diesel Tank	10,000	Gallons	24 7 52
EQT034	MS-001 Lube Oil Tank	10,000	Gallons	24 7 52

Insignificant Activities per LAC 33:III.501.B.5:

Emission Point ID	Description	Physical/Operating Data	Citation
BP-001	Diesel Tank	2,000 Gallons	LAC 33:III.501.B.5.A.3
BP-004	Lube Oil Tank	550 Gallons	LAC 33:III.501.B.5.A.3
BP-005	Lube Oil Tank	550 Gallons	LAC 33:III.501.B.5.A.3
BP-006	Used Oil Tank	1,000 Gallons	LAC 33:III.501.B.5.A.3
FC-007	Hydraulic Oil Tank	1,000 Gallons	LAC 33:III.501.B.5.A.3
FC-008	Hydraulic Oil Tank	1,000 Gallons	LAC 33:III.501.B.5.A.3
FC-009	Lube Oil Tank	2,000 Gallons	LAC 33:III.501.B.5.A.3
FC-010	Lube Oil Tank	500 Gallons	LAC 33:III.501.B.5.A.3
RS-001	Diesel Tank	2,000 Gallons	LAC 33:III.501.B.5.A.3
RS-002	Diesel Tank	3,000 Gallons	LAC 33:III.501.B.5.A.3
RS-003	Diesel Tank	2,000 Gallons	LAC 33:III.501.B.5.A.3
PP-002	Diesel Tank	5,000 Gallons	LAC 33:III.501.B.5.A.3
DT-001	Diesel Tank	1,000 Gallons	LAC 33:III.501.B.5.A.3

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants								Date of Submittal February 2008	
Emission Point ID No. (Alternate ID) 4-05a		Descriptive Name of the Emissions Source (Alt. Name) Diesel Tanks CAP						Approximate Location of Stack or Vent (see Instructions) Method N/A UTM Zone 15 Horizontal 440,074 mE Latitude 32 degrees 2 min 33 sec 0 hundredths Longitude 93 degrees 38 min 5 sec 0 hundredths Datum NAD 83 mN 3,545,322 mn	
TEMPO Subject Item ID No. GRP006									
Stack and Discharge Physical Characteristics Change?	Diameter or Stack Discharge Area N/A ft ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft ³ /min	Stack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Normal Operating Time (hours per year) 8760	Percent of Annual Throughput through This Emission Point Jan - Mar 25% Apr - Jun 25% Jul - Sep 25% Oct - Dec 25%	
Fuel	Type of Fuel N/A	Type of Fuel Used and Heat Input (see Instructions) Heat Input (MM Btu/hr)	Value/Parameter Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volumetric Shell Height (ft) Tank Diameter (ft)	Operating Parameters (inadequate units)	Description Diesel				
a	b	c							
Includes all petroleum storage tanks greater than the insignificant activity thresholds in LAC 33:II.501.B.5A.2 or 3. See EIQs for maximum emission rates.								<input type="radio"/> Fixed Roof <input type="radio"/> Floating Roof <input type="radio"/> External Floating Roof <input checked="" type="radio"/> Internal Floating Roof	
Emission Point ID No. (Alternate ID) 4-05a	Air Pollutant Specific Information								
Pollutant	Control Equipment Code	HAP/TAP/CAS Number N/A	Proposed Emission Rates Average (lb/hr) 7446-09-5 N/A	Maximum (lb/hr) N/A	Annual (tons/yr) 630-08-0 N/A	Permitted Emission Rate (tons/yr) 0.10	Add, Change, Delete, or Unchanged C	Continuous Compliance Method ppmv	
PM10									
SO ₂									
NO _x									
CO									
VOC Total									

State of Louisiana					Date of Submittal April 2008	
Emissions Inventory Questionnaire (EIQ) for Air Pollutants		Approximate Location of Stack or Vent (see instructions)				
Emission Point ID No. (Alternate ID) EQT029	Descriptive Name of the Emissions Source (Alt. Name) Diesel Tank			Method N/A	Datum NAD 83	
TEMPO Subject Item ID No. FC002				UTM Zone 15 Horizontal 440,074 mE	Vertical 3,545,322 mN	
Stack and Discharge Physical Characteristics Change?	Diameter or Stack Discharge Area N/A ft ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft/min	Stack Gas Exit Temperature N/A °F	Percent of Annual Throughput through This Emission Point
						Jan - Mar 25%
						Apr - Jun 25%
						Jul - Sep 25%
						Oct - Dec 25%
Fuel	Type of Fuel	Normal Operating Time (hours per year)			Operating Parameters (include units)	
a	N/A	8760			Value/Parameter Description	
b					4.0 MM Gallons/year	
c						
Type of Fuel Used and Heat Input (see instructions)		Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume				
Heat Input (MM Btu/hr)		10,000 Gallons				
Notes		21.5				
Horizontal Tank		10				
Emissions are included in CAP GRP006						
Air Pollutant Specific Information						
Emission Point ID No. (Alternate ID) EQT029	Control Equipment Code	HAP/TAP CAS Number N/A	Proposed Emission Rates Average (lb/hr) N/A	Annual (tons/yr)	Permitted Emission Rate (tons/yr) N/A	Add, Change, Delete, or Unchanged
Pollutant PM10						
SO ₂		7446-09-5				
NOX		N/A				
CO		630-08-0				
VOC Total		N/A	0.004	C		ppm v

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants											Date of Submittal April 2008	
Emission Point ID No. (Alternate ID) EQT031	Descriptive Name of the Emissions Source (Alt. Name)						Approximate Location of Stack or Vent (see Instructions)					
TEMPO Subject Item ID No. FC004	Diesel Tank						Method UTM Zone Latitude Longitude	N/A 15, Horizontal 32° degrees 93° degrees	mE 2 min 36 min	Datum Vertical 0 sec 0 sec	NAD 83 3,545.322 mN	
Stack and Discharge Physical Characteristics Change?	Diameter or Stack Discharge Area N/A ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft/min	Slack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point				
Fuel a	Type of Fuel N/A	Type of Fuel Used and Heat Input (MM Btu/hr) Heat Input (MM Btu/hr)	Normal Operating Rate/Throughput Maximum Operating Rate/Throughput	4.0 MM Gallons/year			Operating Parameters (Include units)	Jan - Mar Apr - Jun Jul - Sep Oct - Dec				
b			Design Capacity/Volume Shell Height (ft)	40,000 Gallons 48				25%	25%	25%	25%	
c		Notes	Tank Diameter (ft)	12								
Horizontal Tank							<input checked="" type="radio"/> Fixed Roof	<input type="radio"/> Floating Roof	<input type="radio"/> External Floating Roof	<input type="radio"/> Internal Floating Roof		
Emissions are included in CAP GRP006												
Emission Point ID No. (Alternate ID) EQT031	Air Pollutant Specific Information											
Pollutant PM10 SO ₂ NO _x CO VOC Total	Control Equipment Code	Control Equipment Efficiency	HAP/TAP CAS Number	Proposed Emission Rates	Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)	Permitted Emission Rate (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack	
			N/A									
			7446-09-5									
			N/A									
			630-08-0									
			N/A									
				0.058				C	ppmv			

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants									Date of Submittal April 2008			
Emission Point ID No. (Alternate ID) EQT032		Descriptive Name of the Emissions Source (Alt. Name) Lube Oil Tank		Approximate Location of Stack or Vent (see instructions)								
TEMPO Subject Item ID No. MS002							Method	N/A	Datum	NAD 83		
Stack and Discharge Physical Characteristics Change?	Diameter or Stack Discharge Area N/A ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft/min	Stack Gas Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point				
a	Type of Fuel N/A	Heat Input (MM Btu/hr)				150,000 Gallons/year		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	
b						10,000 Gallons		25%	25%	25%	25%	
c						48						
Notes												
Horizontal Tank												
Emissions are Included in Motor Oil Tanks CAP												
Emission Point ID No. (Alternate ID) EQT032		Air Pollutant Specific Information										
Pollutant		Control Equipment Code	Equipment Efficiency	HAP/TAP CAS Number	Proposed Emission Rates	Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)	Permitted Emission Rate (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
PM10				N/A								
SO2				7446-09-5	N/A							
NOx												
CO				630-08-0								
VOC Total				N/A	<0.001				C			
External Floating Roof <input type="radio"/> Internal Floating Roof <input checked="" type="radio"/>												

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Date of Submittal April 2008		
Emission Point ID No. (Alternate ID) EQT033		Descriptive Name of the Emissions Source (Alt. Name)		Approximate Location of Stack or Vent (see instructions)								
TEMPO Subject Item ID No. MS004		Diesel Tank		Method	N/A	Datum	NAD 83					
				UTM Zone	15	Horizontal	440.074 mE		Vertical	3.545.322 mN		
				Latitude	32 degrees	2 min	33 sec		0	hundreds		
				Longitude	93 degrees	38 min	5 sec		0	hundreds		
Stack and Discharge Physical Characteristics Change?		Diameter or Stack Discharge Area N/A ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft ³ /min	Stack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point			
									Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec
									25%	25%	25%	25%
Type of Fuel Used and Heat Input (see Instructions)				Operating Parameters (include units)								
Fuel	Type of Fuel	Heat Input (MM Btu/hr)		Value/Parameter Description								
a	N/A			4.0 MM Gallons/year								
b												
c												
Notes												
Horizontal Tank Emissions are Included in CAP GRP006												
Air Pollutant Specific Information												
Emission Point ID No. (Alternate ID) EQT033		Control Equipment Code		HAP/TAP CAS Number	Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)	Permitted Emission Rate (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack	
		Pollutant		N/A								
		PM10		7446-09-5								
		SO ₂		N/A								
		NOX		630-08-0								
		CO		N/A	0.004			C				
		VOC Total						ppmv				

GRP006
Potential throughput= 4.0 MM gallon/year

Emission Point	Source ID	Source Description	Working Loss (lbs)	Breathing Loss (lb/Total Emissions (lbs))
EQT029	FC002	Diesel Tank (10,000 gal.)	24.79	3.24
EQT030	FC003	Diesel Tank (40,000 gal.)	47.87	10.42
EQT031	FC004	Diesel Tank (40,000 gal.)	47.87	10.42
EQT033	MS004	Diesel Tank (10,000 gal.)	24.79	3.24
				28.03
				58.29
				58.29
				28.03
				58.29

TANKS 4.0.9d

Emission Point	Source ID	Source Description	Average (lb/hr)	Maximum (lb/hr)	Annual (TPY)
EQT029	FC002	Diesel Tank (10,000 gal.)	0.003	0.004	0.014
EQT030	FC003	Diesel Tank (40,000 gal.)	0.007	0.008	0.029
EQT031	FC004	Diesel Tank (40,000 gal.)	0.007	0.008	0.029
EQT033	MS004	Diesel Tank (10,000 gal.)	0.003	0.004	0.014
GRP006	4-05a	Diesel and Oil Tanks CAP	0.02	0.02	0.09

Potential throughput= 150,000 gallon/year

Emission Point	Source ID	Source Description	Working Loss (lbs)	Breathing Loss (lb/Total Emissions (lbs))
EQT032	MS002	Lube Oil Tank (10,000 gal.)	0.04	0.02
EQT034	MS001	Lube Oil Tank (10,000 gal.)	0.04	0.02

TANKS 4.0.9d

Emission Point	Source ID	Source Description	Average (lb/hr)	Maximum (lb/hr)	Annual (TPY)
EQT032	MS002	Lube Oil Tank (10,000 gal.)	0.00001	0.00001	0.00003
EQT034	MS001	Lube Oil Tank (10,000 gal.)	0.00001	0.00001	0.00003
		Oil Tanks CAP	0.00	0.00	0.00

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification:
City:
State:
Company:
Type of Tank:
Description:

10,000 Gallon Diesel Tank

Mansfield

Louisiana

Doret Hills Mine

Horizontal Tank

Tank Dimensions

Shell Length (ft): 21.50
Diameter (ft): 10.00
Volume (gallons): 10,000.00
Turnovers: 400.00
Net Throughput(gal/yr): 4,000,000.00

Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia).

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

10,000 Gallon Diesel Tank - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)	Liquid Bulk Temp (deg F)	Vapor Pressure (psia)	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
	Avg.	Min.	Max.	Avg.	Min.	Max.			
Distillate fuel oil no. 2	All	67.14	61.45	72.83	65.19	0.0033	0.0069	0.0099	130.0000 Option 1; VP60 = .0065 VP70 = .009

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

10,000 Gallon Diesel Tank - Horizontal Tank
Mansfield, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	24.79	3.24	28.03

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: 40,000 Gallon Diesel Tank
 City: Mansfield
 State: Louisiana
 Company: Dolez Hills Mine
 Type of Tank: Horizontal Tank
 Description:

Tank Dimensions

Shell Length (ft):	48.00
Diameter (ft):	12.00
Volume (gallons):	40,000.00
Turnovers:	100.00
Net Throughput(gal/hr):	4,000,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:
 Good

Breather Vent Settings

Vacuum Settings (psig):
 Pressure Settings (psig)

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

40,000 Gallon Diesel Tank - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Month	Daily Liquid Surf, Avg.	Daily Temperature (deg F) Min.	Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Vapor Mol. Weight. Max.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight.	Bests for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	67.14	61.45	72.83	85.19	0.0083	0.0089	0.0099	130.0000	183.00

Option 1: $VP60 = .0065 \sqrt{P70} = .009$

TANKS 4.0.9d**Emissions Report - Summary Format
Individual Tank Emission Totals****Emissions Report for: Annual****40,000 Gallon Diesel Tank - Horizontal Tank
Mansfield, Louisiana**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	47.87	10.42	58.29

COPY

original to IOL

LDEQ RECEIPT TO JM MFG/GP 2/T. Green

2008 MAR 4 PM 5 26

PROVIDENCE

1201 Main Street
Baton Rouge, LA 70802
(225) 766-7400

P.O. Box 31
Sulphur, LA 70664
(337) 528-0066

450 E. Pass Rd., #106
Gulfport, MS 39507
(228) 897-7676

1200 Walnut Hill Lane, #1000
Irving, TX 75038
(972) 550-9326

March 4, 2008

Louisiana Department of Environmental Quality
Permits Division
P.O. Box 4314
Baton Rouge, LA 70821-4314
Attn: Ms. Traci Green

RE: Minor Modification Application Fee
Dolet Hills Lignite Company, LLC
Mansfield, Desoto Parish, Louisiana
Providence Engineering Project No. 199-003
Agency Interest No. 11541

Dear Ms. Green:

On behalf of Dolet Hills Lignite Company, LLC (DHLC), Providence Engineering and Environmental Group LLC (Providence) is submitting the fee associated with the addendum to a minor modification application for the Dolet Hills Mine located in Mansfield, Louisiana submitted on February 29, 2008.

A check in the amount of \$756.00 is attached for processing this request per LAC 33:III.223 Fee No. 0020. We sincerely appreciate your prompt attention to this request.

Sincerely,
Providence Engineering and Environmental Group LLC

Valerie Matherne

Valerie Matherne
Sr. Environmental Specialist

Attachment

Cc: David Wright (DHLC)

RECEIVED
MAR 4 2008

LDEQ

RECEIPT OF CHECK

Report Date/Time
3/5/2008 12:31:47 PM

AI NUMBER	11541
Company Name	Dolet Hills Lignite Company,
Site Name/Location	Dolet Hills Mine
Phone Number	
Date Received	3/5/2008
Date on Check	3/4/2008
Check Number	11834
Amount Received	\$756.00

RECEIPT GENERATED BY:
Jerri Muller

COMMENTS Additional fee for Minor Source Mod.

Media: AIR QUALITY

COPY

PROVIDENCE

original to I OA
copy to JW MFG Kryz/T Green

LDEQ RECEIPT

2008 FEB 27 PM 1 44

PERC 20070001

1201 Main Street
Baton Rouge, LA 70802
(225) 766-7400

P.O. Box 31
Sulphur, LA 70664
(337) 528-0066

450 E. Pass Rd., #106
Gulfport, MS 39507
(228) 897-7676

1200 Walnut Hill Lane, #1000
Irving, TX 75038
(972) 550-9326

February 26, 2008

Louisiana Department of Environmental Quality
Permits Division
P.O. Box 4314
Baton Rouge, LA 70821-4314
Attn: Ms. Traci Green

RE: Minor Modification Application
Dolet Hills Lignite Company, LLC
Mansfield, Desoto Parish, Louisiana
Providence Engineering Project No. 199-003
Agency Interest No. 11541

Dear Ms. Green:

On behalf of Dolet Hills Lignite Company, LLC (DHLC), Providence Engineering and Environmental Group LLC (Providence) is submitting this addendum minor modification application for the Dolet Hills Mine located in Mansfield, Louisiana submitted on July 16, 2007. A process description and project description are provided below.

Process Description

DHLC utilizes two draglines to remove overburden from the lignite deposits to be mined. Lignite is loaded into haul trucks and transported to a drop point for commercial sale or delivery by conveyor to the Dolet Hills Power Plant. Bulldozers, scrapers, and haul trucks are used to handle the lignite and overburden. These activities generate fugitive dust (particulate matter – 10 (PM_{10})) emissions. Support activities include maintenance facilities, diesel-fired generators, pumps, light plants, and storage of fuels (diesel, oils, and gasoline) in aboveground tanks. The diesel-fired equipment generates combustion products including emissions of $PM-10$, nitrogen oxides (NO_x), sulfur dioxide (SO_2), carbon monoxide (CO) and volatile organic compounds (VOCs); and the petroleum product storage generates minor emissions of VOCs.

RECEIVED
FEB 27 2008

Ms. Traci Green
February 26, 2008
Page 2 of 2

LDEQ RECEIPT

Project Description

2008 FEB 27 PM 1 44

The Dolet Hills Lignite Mine operated by DHLC is a minor source of criteria air pollutants and toxic air pollutants (TAPs), and currently operates under Permit No. 0760-00008-03 issued on May 31, 2007. Currently, DHLC requests a minor modification to:

- Increase the Diesel and Oil Tanks CAP (GRP006) annual diesel throughput from 3.24 MM gallons per year to 4.0 MM gallons per year.
- Request the removal of BP-002 (EQT027) from the permit and, *Renew w/ last rev mon*
- Correct the material in tank MS-002 (EQT032) from diesel to lube oil. *Renew w/ last rev mon*

If you have questions regarding this submittal, please call me at (225) 766-7400. A check in the amount of \$756.00 is also attached for processing this request per LAC 33:III.223 Fee No. 0020. We sincerely appreciate your prompt attention to this request.

Sincerely,
Providence Engineering and Environmental Group LLC



Kevin Calhoun, P.E.
Senior Engineer

Attachment

Cc: David Wright (DHLC)

**DOLET HILLS MINE
MANSFIELD, DESOTO PARISH, LOUISIANA**

EMISSION POINT LIST

Emission Point No.:	Description	Max Operating Rate or Tank Capacity	Gallons/year of Diesel	H/D	D/W	Operating Schedule W/Y
GRP006	4-05a Diesel and Oil Tanks CAP	4,000,000	Gallons/year of Diesel	-	-	-
		150,000	Gallons/year of Lube Oil	-	-	-
EQT029	FC-002 Diesel Tank	10,000	Gallons	24	7	52
EQT030	FC-003 Diesel Tank	40,000	Gallons	24	7	52
EQT031	FC-004 Diesel Tank	40,000	Gallons	24	7	52
EQT032	MS-002 Lube Oil Tank	10,000	Gallons	24	7	52
EQT033	MS-004 Diesel Tank	10,000	Gallons	24	7	52
EQT034	MS-001 Lube Oil Tank	10,000	Gallons	24	7	52

Insignificant Activities per LAC 33:III.501.B.5:

Emission Point ID	Description	Physical/Operating Data		Citation
BP-001	Diesel Tank	2,000	Gallons	LAC 33:III.501.B.5.A.3
BP-004	Lube Oil Tank	550	Gallons	LAC 33:III.501.B.5.A.3
BP-005	Lube Oil Tank	550	Gallons	LAC 33:III.501.B.5.A.3
BP-006	Used Oil Tank	1,000	Gallons	LAC 33:III.501.B.5.A.3
FC-007	Hydraulic Oil Tank	1,000	Gallons	LAC 33:III.501.B.5.A.3
FC-008	Hydraulic Oil Tank	1,000	Gallons	LAC 33:III.501.B.5.A.3
FC-009	Lube Oil Tank	2,000	Gallons	LAC 33:III.501.B.5.A.3
FC-010	Lube Oil Tank	500	Gallons	LAC 33:III.501.B.5.A.3
RS-001	Diesel Tank	2,000	Gallons	LAC 33:III.501.B.5.A.3
RS-002	Diesel Tank	3,000	Gallons	LAC 33:III.501.B.5.A.3
RS-003	Diesel Tank	2,000	Gallons	LAC 33:III.501.B.5.A.3
PP-002	Diesel Tank	5,000	Gallons	LAC 33:III.501.B.5.A.3
DT-001	Diesel Tank	1,000	Gallons	LAC 33:III.501.B.5.A.3

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Date of Submittal			
										February 2008			
Emission Point ID No. (Alternate ID) EQT029		Descriptive Name of the Emissions Source (Alt. Name)		Approximate Location of Stack or Vent (see instructions)									
TEMPO Subject Item ID No. FC002		Diesel Tank		Method	N/A	Datum	NAD 83						
		UTM Zone	15	Horizontal	440,074	mE							
		Latitude	32	degrees	2	min	Vertical	3,545,322					
		Longitude	93	degrees	38	min		mN					
						sec	0	hundredths					
						sec	0	hundredths					
Stack and Discharge Physical Characteristics Change?		Diameter or Stack Discharge Area N/A ft ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions not at Standard N/A ft ³ /min	Stack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point				
								Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec		
								25%	25%	25%	25%		
Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)						Description					
Fuel	Type of Fuel	Heat Input (MM Btu/hr)						Value/Parameter					
a	N/A							360,000 Gallons/year					
b								10,000 Gallons					
c								21.5					
								10					
Notes													
Horizontal Tank										<input checked="" type="radio"/> Fixed Roof	<input type="radio"/> Floating Roof	<input type="radio"/> External Floating Roof	<input type="radio"/> Internal Floating Roof
Emissions are included in CAP GRP006													
Emission Point ID No. (Alternate ID) EQT029										Air Pollutant Specific Information			
Control Equipment Code		HAP/TAP CAS Number		Proposed Emission Rates	Permitted Emission Rate (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack					
Pollutant		Control Equipment Efficiency		Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)							
PM ₁₀				N/A									
SO ₂					7446-09-5								
NO _x					N/A								
CO					630-08-0								
VOC Total					N/A	0.002	C	ppmv					

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants						Date of Submittal February 2008		
Emission Point ID No. (Alternate ID) EQT031		Descriptive Name of the Emissions Source (Alt. Name) Diesel Tank		Approximate Location of Stack or Vent (see instructions)				
TEMPO Subject Item ID No. FC004				Method UTM Zone	N/A	Datum Vertical		
				15	Horizontal <u>440.074</u> mE	<u>3,545.322</u> mN		
				Latitude	<u>32</u> degrees	<u>2</u> min <u>33</u> sec <u>0</u> hundredths		
				Longitude	<u>93</u> degrees	<u>38</u> min <u>5</u> sec <u>0</u> hundredths		
Stack and Discharge Physical Characteristics Change?	Diameter or Stack Discharge Area N/A ft ft	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft/min	Stack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point Jan - Mar 25% Apr - Jun 25% Jul - Sep 25% Oct - Dec 25%
Operating Parameters (Include units) Value/Parameter Description								
a	Type of Fuel N/A	Heat Input (MM Btu/hr)		Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume 40,000 Gallons		1.6 MM Gallons/year		
b				Shell Height (ft)		48		
c				Tank Diameter (ft)		12		
Horizontal Tank Emissions are included in CAP GRP006								
Air Pollutant Specific Information								
Emission Point ID No. (Alternate ID) EQT031	Control Equipment Code	HAP/TAP CAS Number	Proposed Emission Rates	Permitted Emission Rate (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack	
Pollutant	Efficiency	Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)				
PM10		N/A						
SO ₂		7446-09-5						
NOx		N/A						
CO		630-08-0						
VOC Total		N/A	0.007	C	ppmv			
Emissions are included in CAP GRP006								

State of Louisiana Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Date of Submittal February 2008			
Emission Point ID No. (Alternate ID) EQT033		Descriptive Name of the Emissions Source (Alt. Name) Diesel Tank		Approximate Location of Stack or Vent (see instructions)									
TEMPO Subject Item ID No. MS004				Method	N/A	Datum		NAD 83					
				UTM Zone	15	Horizontal	440,074	mE	Vertical	3,545,322			
				Latitude	32 ⁰ degrees	2 ⁰ min	33 sec	0 sec	hundredths	mN			
				Longitude	93 ⁰ degrees	38 ⁰ min	5 sec	0 sec	hundredths				
Stack and Discharge Physical Characteristics Change?		Diameter or Stack Discharge Area N/A ft ²	Height of Stack Above Grade N/A ft	Stack Exit Velocity N/A ft/sec	Stack Gas Flow at Conditions, not at Standard N/A ft/min	Stack Gas Exit Temperature N/A °F	Normal Operating Time (hours per year) 8760	Date of Construction or Modification N/A	Percent of Annual Throughput through This Emission Point				
									Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	
									25%	25%	25%	25%	
Type of Fuel Used and Heat Input (see instructions)				Operating Parameters (include units)						Value/Parameter Description			
Fuel	Type of Fuel	Heat Input (MM Btu/hr)		Normal Operating Rate/Throughput		4 MM Gallons/year							
a	N/A			Maximum Operating Rate/Throughput		10,000 Gallons							
b				Design Capacity/Volume									
c				Shell Height (ft)		48							
Horizontal Tank Notes				Tank Diameter (ft)		12							
Emissions are included in CAP GRP006										<input checked="" type="radio"/> Fixed Roof	<input type="radio"/> Floating Roof	<input type="radio"/> External Floating Roof	<input type="radio"/> Internal Floating Roof
Air Pollutant Specific Information													
Emission Point ID No. (Alternate ID) EQT033		Control Equipment Code	HAP/TAP CAS Number	Proposed Emission Rates		Permitted Emission Rate (tons/yr)		Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack			
		Pollutant		Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)							
		PM10	N/A										
		SO2	7446-09-5										
		NOx	N/A										
		CO	630-08-0										
		VOC Total	N/A	0.002		C		ppmv					

GRP006

Potential throughput= 4.0 MM gallon/year

Emission Point	Source ID	Source Description	Working Loss (lbs)	Breathing Loss (lb)	Total Emissions (lbs)
EQT029	FC002	Diesel Tank (10,000 gal.)	9.23	3.24	12.47
EQT030	FC003	Diesel Tank (40,000 gal.)	37.61	10.42	48.03
EQT031	FC004	Diesel Tank (40,000 gal.)	37.61	10.42	48.03
EQT032	MS002	Lube Oil Tank (10,000 gal.)	0.04	0.02	0.06
EQT033	MS004	Diesel Tank (10,000 gal.)	9.23	3.24	12.47
EQT034	MS002	Lube Oil Tank (10,000 gal.)	0.04	0.02	0.06
					48.03

TANKS 4.0.9d

Emission Point	Source ID	Source Description	Average (lb/hr)	Maximum (lb/hr)	Annual (TPY)
EQT029	FC002	Diesel Tank (10,000 gal.)	0.001	0.002	0.006
EQT030	FC003	Diesel Tank (40,000 gal.)	0.005	0.007	0.024
EQT031	FC004	Diesel Tank (40,000 gal.)	0.005	0.007	0.024
EQT032	MS002	Lube Oil Tank (10,000 gal.)	0.00001	0.00001	0.00003
EQT033	MS004	Diesel Tank (10,000 gal.)	0.001	0.002	0.006
EQT034	MS004	Lube Oil Tank (10,000 gal.)	0.00001	0.00001	0.00003
GRP006	4-05a	Diesel and Oil Tanks CAP	0.01	0.02	0.06

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: EQT029
 City: Mansfield
 State: Louisiana
 Company: Dolet Hills Mine
 Type of Tank: Horizontal Tank
 Description: 10,000 Gallon Tank (FC-002) Diesel

Tank Dimensions

Shell Length (ft): 21.50
 Diameter (ft): 10.00
 Volume (gallons): 10,000.00
 Turnovers: 36.00
 Net Throughput(gal/yr): 360,000.00
 Is Tank Heated (y/n): N
 Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

EQT029 - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Liquid Bulk			Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
	Month	Avg.	Daily Liquid Surf. Temperature (deg F)	Max.	Min.	Avg.					
Distillate fuel oil no. 2	All	67.14	61.45	72.83	65.19	0.0083	0.0069	0.0099	130.0000	188.00	Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0 Report

Page 3 of 4

Emissions Report for: Annual**EQT029 - Horizontal Tank
Mansfield, Louisiana****TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals**

		Losses(lbs)		
		Working Loss	Breathing Loss	Total Emissions
Components		9.23	3.24	12.47
Distillate fuel oil no. 2				

TANKS 4.0 Report

Page 1 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User identification: EQT030
 City: Mansfield
 State: Louisiana
 Company: Dolet Hills Mine
 Type of Tank: Horizontal Tank
 Description: 40,000 Gallon Tank (FC-003) Diesel

Tank Dimensions

Shell Length (ft):	48.00
Diameter (ft):	12.00
Volume (gallons):	40,000.00
Turnovers:	40.00
Net Throughput(gal/yr):	1,600,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure \approx 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

EQT030 - Horizontal Tank
Mansfield, Louisiana

Mixture\Component	Daily Liquid Surf.			Vapor Pressure (psia)			Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
	Month	Avg.	Max.	Bulk Temp (deg F)	Avg.	Min.				
Distillate fuel oil no. 2	All	67.14	61.45	72.83	65.19	0.0053	0.0069	0.0089	130.0000	188.00 Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0 Report**Page 3 of 4**

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

EQT030 - Horizontal Tank
Mansfield, Louisiana

Losses(lbs)		
	Working Loss	Breathing Loss
Components		
Distillate fuel oil no. 2	37.61	10.42
		48.03

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: EQT031
 City: Mansfield
 State: Louisiana
 Company: Dolet Hills Mine
 Type of Tank: Horizontal Tank
 Description: 40,000 Gallon (FC-004) Diesel

Tank Dimensions

Shell Length (ft): 48.00
 Diameter (ft): 12.00
 Volume (gallons): 40,000.00
 Turnovers: 40.00
 Net Throughput(gal/yr): 1,600,000.00
 Is Tank Heated (y/n): N
 Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

**EQT031 - Horizontal Tank
Mansfield, Louisiana**

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

Mixture/Component	Month	Daily Liquid Surf.			Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Bulk Temp (deg F)	Temp (deg F)	Min.					
Distillate fuel oil no. 2	All	67.14	51.45	72.83	65.19	0.0083	0.0069	0.0099	130.0000	188.00	188.00	Option 1; VP260 = .0085 VP70 = .0085

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

**EQT031 - Horizontal Tank
Mansfield, Louisiana**

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Distillate fuel oil no. 2	37.61	10.42		48.03

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User identification: EQT032
City: Mansfield
State: Louisiana
Company: Dolet Hills Mine
Type of Tank: Horizontal Tank
Description: 10,000 Gallon Tank (MS-002) Lube Oil

Tank Dimensions

Shell Length (ft): 15.50
Diameter (ft): 10.00
Volume (gallons): 10,000.00
Turnovers: 15.00
Net Throughput(gal/yr): 150,000.00

Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

EQT032 - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Month	Daily Liquid Surf.		Vapor Pressure (psia)		Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.					
Residual oil no. 6	All	67.14	61.45	72.83	65.19	0.0001	0.0000	0.0001	190.0000	387.00

Option 1: VP60 = .00004 VP70 = .00006

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

EQT032 - Horizontal Tank
Mansfield, Louisiana

Losses(lbs)			
	Working Loss	Breathing Loss	Total Emissions
Components	0.04	0.02	0.06
Residual oil no. 6			

TANKS 4.0 Report

Page 1 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: EQT033
 City: Mansfield
 State: Louisiana
 Company: Dojet Hills Mine
 Type of Tank: Horizontal Tank
 Description: 10,000 Gallon Tank (MS-004) Diesel

Tank Dimensions

Shell Length (ft):	21.50
Diameter (ft):	10.00
Volume (gallons):	10,000.00
Turnovers:	36.00
Net Throughput(gal/yr):	360,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

EQT033 - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Month	Liquid			Vapor			Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Daily Liquid Surf.	Bulk Temp (deg F)	Avg.	Avg.	Min.	Max.				
Distillate fuel oil no. 2	All	67.14	61.45	72.83	65.19	0.0063	0.0069	0.0099	130.0000	188.00	Option 1: VP80 = .0065 VP70 = .009

TANKS 4.0 Report

Page 3 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

EQT033 - Horizontal Tank
Mansfield, Louisiana

Losses(lbs)		
Components	Working Loss	Breathing Loss
Distillate fuel oil no. 2	9.23	3.24
		12.47

TANKS 4.0 Report

Page 1 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: EQT034
 City: Mansfield
 State: Louisiana
 Company: Dolet Hills Mine
 Type of Tank: Horizontal Tank
 Description: 0,000 Gallon Tank (MS-001) Lube Oil

Tank Dimensions

Shell Length (ft):	15.50
Diameter (ft):	10.00
Volume (gallons):	10,000.00
Turnovers:	15.00
Net Throughput(gal/yr):	150,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade: White/White
 Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0 Report

Page 2 of 4

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

EQT034 - Horizontal Tank
Mansfield, Louisiana

Mixture/Component	Month	Daily Liquid Surf.			Vapor Pressure (psia)			Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.				
Residual oil no. 6	All	67.14	61.45	72.83	65.19	0.0001	0.0000	0.0001	180.0000	387.00	Option 1: VP60 = 00004 VP70 = .00006

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

EQT034 - Horizontal Tank
Mansfield, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Residual oil no. 6	0.04	0.02	0.06